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DESCRIPTORS: \*Ionosphere, \*Upper atmosphere,  
\*Electron density, Satellites (Artificial), Magnetic  
tape, Radio signals, Magneto-optic effect,  
Measurement, Geophysics.

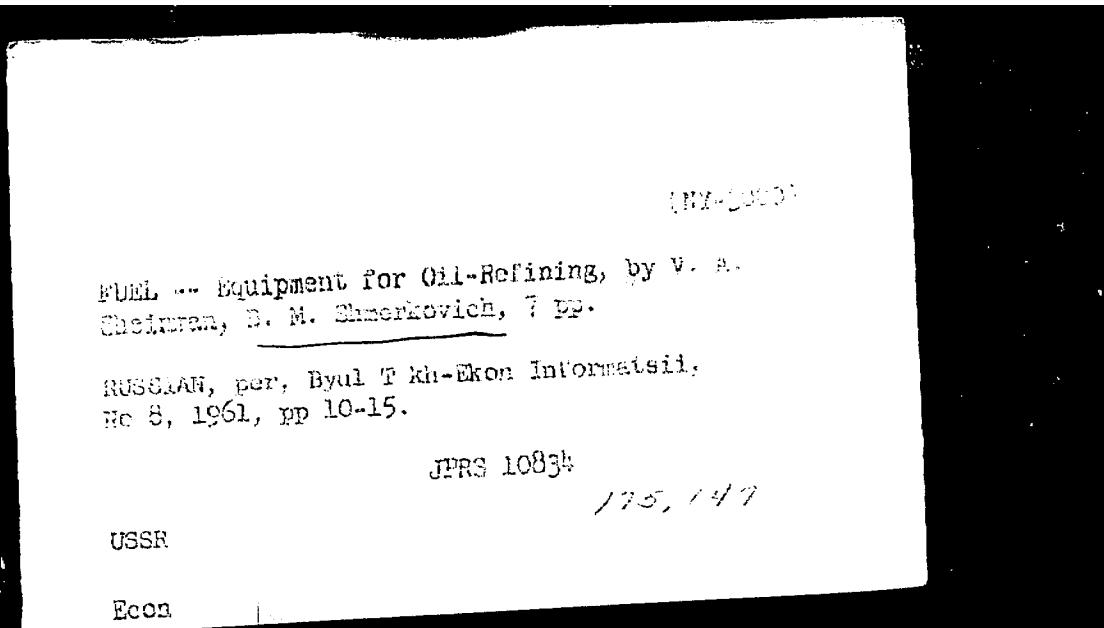
During the entire time of flight of the third Soviet  
satellite (Satellite 1958 6), low-frequency (20 mc)  
records were regularly made at the Kuhlungabora  
Observatory ( $\varphi = 54^{\circ} 07' N$ ,  $\lambda = 11^{\circ} 46' E$ ,  $\tau = 54.4^{\circ} N$ ,  
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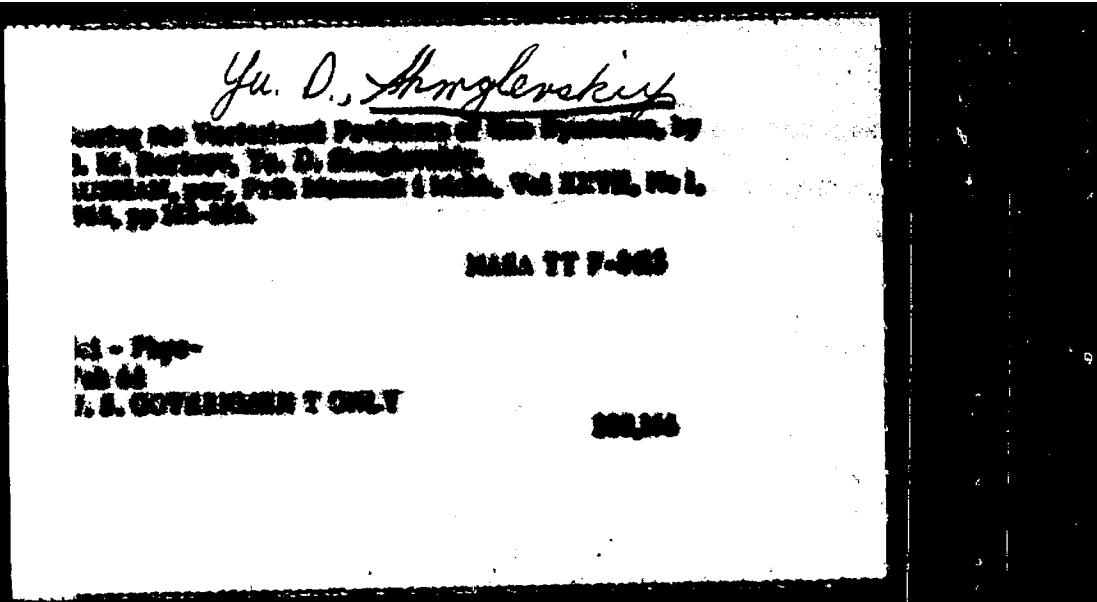
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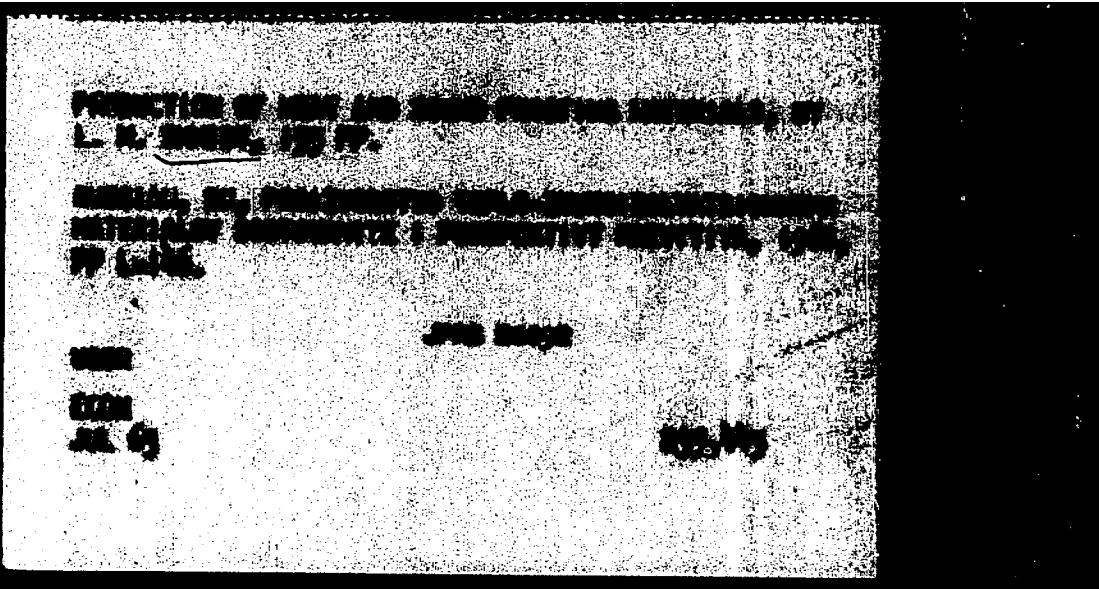
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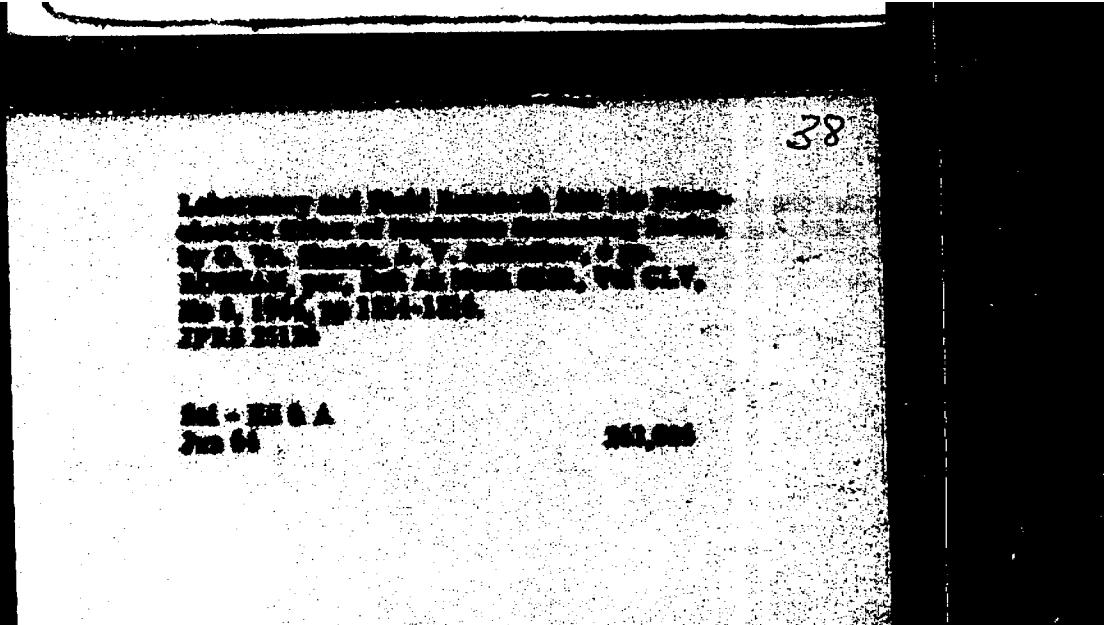
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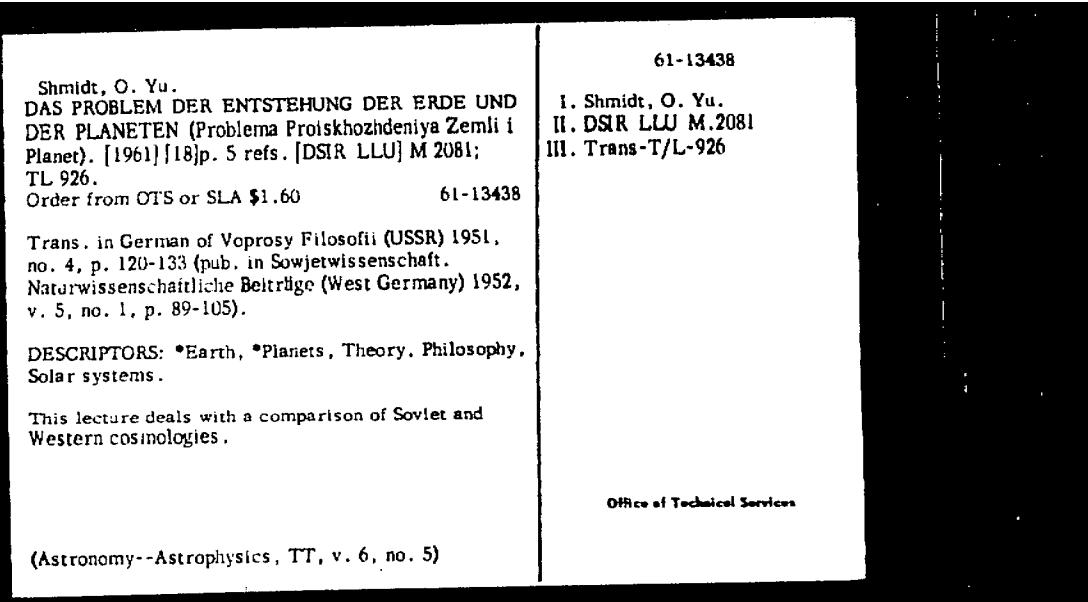
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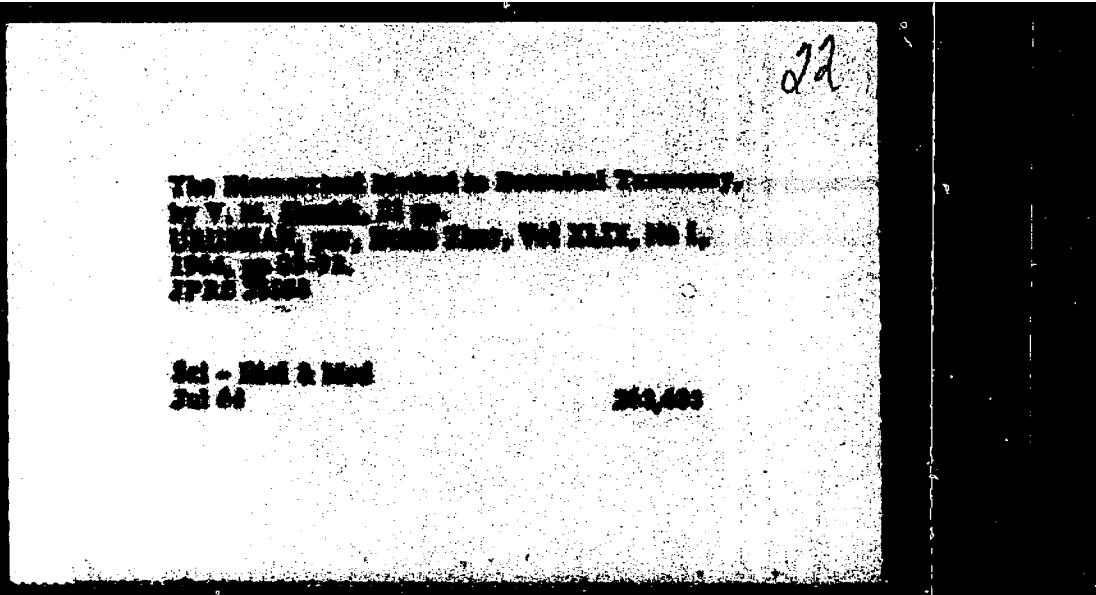
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